

## Method and system for speech recognition.

ABSTRACT.

- 5 There is provided a novel approach for generating multilingual text-to-  
phoneme mappings for use in multilingual speech recognition systems. The  
multilingual mappings are based on the weighted outputs from a neural  
network text-to-phoneme model, trained on data mixed from several  
languages. The multilingual mappings used together with a branched  
10 grammar decoding scheme is able to capture both inter- and intra-language  
pronunciation variations which is ideal for multilingual speaker independent  
speech recognition systems. A significant improvement in overall system  
performance is obtained for a multilingual speaker independent name dialing  
task when applying multilingual instead of language dependent text-to-  
15 phoneme mapping.

Fig. 4.

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